Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 1 I Coastal Program	•	ntal Quality -	Virginia Coastal Zon	e Management Program		
Project status: Open	Curr Start: 10/1/2009	rent approved End: 3/31/2011	Closeout:	Final deliverable(s) status:	Project Period Open	

Policy Products: The Coastal Policy Team met in February (see a summary at: http://www.deq.virginia.gov/coastal/documents/cptsummary2-17-10.pdf). Team members were briefed on Section 309 process and the annual CZM and CELCP grant processes. The team also finalized a revised Executive Order for Governor McDonnell's signature to continue the CZM Program.

RPCs and Amendments: The Virginia CZM Program held a public comment period from January 22 to February 16, 2010 on seven proposed routine program changes and submitted the RPC packages to NOAA on February 18. The Virginia Department of Transportation (VDOT) provided comments expressing their opposition to submission #2, regarding fisheries laws administered by the Department of Game and Inland Fisheries. Their concern was that there were additional implications regarding wildlife and endangered species and that the change should constitute a program amendment rather than a routine program change. Based on their concern, Virginia CZM withdrew the fisheries submission and will be contracting for more in-depth analysis of the issue prior to resubmitting the package to NOAA for approval.

Grant Administration, Management & Reporting: The Semi-annual Section A, B, and C reports were sent to NOAA on October 30, 2009.

FY 2010 CZM Grant Application: Grant applications were received by the CZM Program by March 25, 2010, reviewed and improved upon by CZM staff, entered into CAMMP and submitted to NOAA by April 15.

FY 2011 CELCP Grant Application: April 5, 2010, VA CZM submitted the following two applications for FY 2011 CELCP funding: 1) Lynnhaven Oyster Restoration and Estuary Protection in VA Beach, approximately 84 acres for \$3,000,000 and 2) The King William County-Mattaponi River Coastal Lands Acquisition project at Scotland Landing, 188 acres for \$829,800.

Performance Measures: Fiscal Year 2008. Oct. 1, 2008-Sept. 30, 2009. Performance Measures report was sent to NOAA on Oct. 30, 2009.

Mid-Atlantic Regional Council on the Ocean Documents: The CZM Manager participated in weekly MARCO conference calls helping to set the agenda for the Stakeholder Workshop which was held in December (a summary report is available at http://midatlanticocean.org/summary.pdf) and presenting the habitat goals at the workshop. The CZM Manager also worked with The Nature Conservancy on FY 2009 Task 11 to begin development of a GIS Portal for MARCO. In addition the other MARCO state have been contacted to work together on coordinated Section 309 Ocean Management Strategies for FY 2011-15.

Final Products	% Completion	Anticipated Completion Date
Policy Products	50	March 31, 2011
RPCs and Amendments	50	March 31, 2011
Grant Administration, Management & Reporting	50	March 31, 2011
FY 2010 CZM Grant Application	80	March 31, 2011
FY 2011 CELCP Grant Application	100	March 31, 2011
Performance Measures	50	March 31, 2011
Mid-Atlantic Regional Council on the Ocean Documents	50	March 31, 2011

Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System Task: 1.01 Coastal Program Management

Current approved Final deliverable(s) status: Project Period Open Project status:

Open Start: End: Closeout: 9/30/2010 12/31/2010 10/1/2009

Year: 2009

This task funds one of our Coastal Planners through a contract with VIMS. For progress see Task 1, FY 2009.

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 1.02 V Coastal GIS Sup	Virginia Commonwe port	alth Universi	ity			
Project status:	Curr	ent approve	<u>d</u>	Final deliverable(s) status:	Project Period Open	
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010			

- -Although no live demos were requested for the first half of the fiscal year, the Coastal GIS Coordinator provided slides outlining the main features and functions of Coastal GEMS for CBNERRVA staff to utilize as part of a presentation on the Virginia Estuarine and Coastal Observing System. Up to date Coastal GEMS factsheets were made available at all events attended by VA CZM staff.
- -The Coastal GIS Coordinator provided GIS support to VMRC as they worked to create a report identifying subaqueous lands appropriate for renewable energy siting in response to SB 1350. The GIS Coordinator prepared maps that were included in the VMRC SB1350 report of Virginia waters showing conflicts or potential conflicts for offshore wind turbines. The maps combined data on wind speed, bathymetry, military exclusions, navigation channels, public and private shellfish grounds and estimated bird conflicts.
- -CZM staff participated in Dragon Run Day with an exhibit displaying work that the VA CZM Program has supported in the Dragon Run watershed. VA CZM has supported new data development by working with VA DGIF, VA DCR and VCU to create the Priority Conservation Areas (PCA) dataset. The Coastal GIS Coordinator created a map layout for the exhibit displaying the PCA data in the Dragon Run Watershed.
- -The Coastal GIS Coordinator has been involved in the Seaside Special Area Management Plan (SAMP) advisory group meetings. Involvement has included performing GIS calculations and creating maps using existing data to stimulate preliminary discussions, actively participating in discussion on current in progress Seaside SAMP grants designed to analyze GIS data on seaside resources, and drafting a data sharing agreement for use by the group.
- -The Coastal GIS Coordinator produced coastal resource maps and made GIS based calculations as needed for CZM staff to utilize in meetings, presentations, and publications. This includes maps produced for the VA CZM FY10 CELCP application.

Final Products	% Completion	Anticipated Completion Date
Updated Coastal GEMS Internet Mapping System	50%	Sep 30, 2010
Coastal GEMS Training Program	50%	Sep 30, 2010
Coastal GEMS Meeting Notes	50%	Sep 30, 2010
GIS Map Products	50%	Sep 30, 2010

<sup>-</sup>The Coastal GIS Coordinator processed GIS data layers for effective display on Coastal GEMS and uploaded layers to VCU to be added to Coastal GEMS. Layers updated in this period include: SAV Coverage, Seaside Phragmites, and Conservation Lands. Layers added in this period include: 3 Nautical Mile and 12 Nautical Mile reference layers, Priority Conservation Areas, and Potential Wetland Restoration. Coastal GEMS can be accessed online at: www.coastalgems.org

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

for the period from October 2009 - March 2010

Task: 1.03 I Virginia CZM Pro	•	ntal Quality -	Virginia Coastal Zo	one Management Program		
Project status:	Curr	Current approved		Final deliverable(s) status:	Project Period Open	
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010			

- Continued coordination of the "Plant ES Natives" including production of spring radio ads and a mid-campaign evaluation survey (radio ads downloadable at http://www.deq.virginia.gov/coastal/plantesnativesmediaroom.html; arranged public presentation in Jan and scheduled public campaign presentations in May and July; assisted in developing scope of work and initial planning for new demonstration site at Kiptopeke; secured highlight of campaign, and visibility for the Virginia CZM Program, in new social marketing book to be published by McKenzie-Mohr et. al. Managed and prepared final product for FY07 Task 10.07 campaign design and implementation status report and FY07 Task 10.20 Seaside interpretive kiosks and campaign multi-media materials.
- Began production of the Spring/Summer 2010 issue of the Virginia Coastal Zone Management magazine. The magazine should be published by the end of July 2010, however it is not certain how the new administration in Virginia and organizational changes at DEQ may affect publication.
- Coordinated printing and distribution of the Plant ES Native campaign's new guide to Eastern Shore native plants, "Native Plants of Accomack and Northampton" (guide printed with FY07 Task 10.20 and FY07 Task 1.03 funds). Over 2,000 of the 2,500 copies printed have been distributed, including 450 copies to Eastern Shore residents who requested the guide when responding to the pre- and mid-campaign surveys. The guide is downloadable at http://www.deq.virginia.gov/coastal/go-native.html.
- Consulted with Virginia Environmental Education Office on development of new community climate change education module.
- Coordinated TV ad sponsorship of the "James and Me" Streaming the James Video Contest for students in partnership with the James River Association and FOX TV.
- Developed new Virginia CZM media strategy and planning template implemented strategy for release of new native plant guide and began drafting strategy to highlight the acquisition and restoration project at Kiptopeke State Park.
- Initiated planning and design of interpretive signage for the Taylor/Virginia CZM Tract at Kiptopeke State Park (which will be printed using FY08 Task 13 funds) and for The Nature Conservancy's new Living Shoreline Demonstration in Oyster (which will be printed using FY08 Task 1.03 funds).
- Maintained the Virginia CZM website, including publication of new FY09 project description pages and updates to existing project pages; released revised homepage.
- Facilitated exhibits, including new exhibit for Dragon Run Day highlighting work that the VA CZM Program has supported in the Dragon Run watershed October 09) and updated general program exhibit displayed at the Sea Grant symposium (Jan 10).

Final Products
Campaigns and Events
Virginia Coastal Zone Management Magazine and Other Publications
Website
Exhibits

Completion
Sow
Sept. 30, 2010

Task: 2	Dept. of Environmental Quality Subcontract									
Quick Respon	se Grants									
Project status:	Cur	rent approve	ed	Final deliverable(s) status:	Funds Transferred Out of Task					
Proposed	Start: 10/1/2009	End: 3/31/2011	Closeout:							

During this period \$2,584 of the \$5,280 originally budgeted in this task were transferred under DEQ's 10% authority to Task 1.01 (VCU Coastal GIS Support) to provide for some minor administrative costs incurred by the Center for Environmental Studies. The remaining funds (\$2,696) will most likely be used for a reprinting project such as the E. Shore native plants guide or the beach-nesting bird brochure.

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 2.01 Back Bay Restoration Foundation

Back Bay Restoration Foundation State of the Bay Conference

Project status: <u>Current approved</u> <u>Final deliverable(s) status:</u> Project Period Open

Open Start: End: Closeout: 1/1/2010 6/30/2010 9/30/2010

The Back Bay Restoration Foundation and Virginia Coastal Zone Management Program co-hosted the Back Bay Forum on March 17, 2010. Prior to the Forum, the BBRF Project Manager and BBRF Board Members contacted potential presenters from various local, state, and federal agencies, as well as from educational and research institutions with a strong interest in the management of the Back Bay watershed resources. The focus for the 2010 Forum was primarily agriculture and the impact on the watershed/water quality.

- -The Project Manager and BBRF Board Members prepared an agenda/registration form and nametags for organizations and volunteers throughout the watershed area. (15% of deliverables)
- -The Project Manager assisted organizations with the format of their presentations and prepared copies of their paper into a "CD of the Back Bay Forum 2010 Presentations" for use by attendees. (15% of deliverables)
- -The Project Manager created a Forum page on the BBRF website, www.bbrf.org. (10% of deliverables)
- -The Project Manager developed a "Survey and comment form" for distribution to all 110 registered attendees. Inputs will be organized and included in the Final Report. (10% of deliverables)

Final Products % Completion Anticipated Completion Date forum agenda/registration form and nametags (15%) 100%

Forum agenda/registration form and nametags (15%) 100/8
CD of the Back Bay Forum 2010 Presentations (15%) 100%
Web site (15%) 100%

Forum Survey and Comment Form (forms returned – data compilation in progress) (10%) 75% 30JUN10

Action Plan (45%) 20% 30JUN10

Task: 3 Dept. of Environmental Quality - Environmental Impact Review

Environmental Impact Review & Federal Consistency

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

During the first half of FY 2009 the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 103 development projects and management plans for consistency with the VCP. This represents 71.2% of the total amount of projects (130) reviewed during this period. Major state projects accounted for 14 projects, 47 were federal actions, and 42 were federally funded projects (predominantly local government projects). The 47 federal projects included 25 federal agency activities and 6 federal licenses, approvals, 12 HUD mortgage insurance projects (submitted as a residual category pursuant to the federal consistency regulation 15 CFR 930.31(c)) and 4 projects using HOME TCAP (federal stimulus) funding from HUD which is passed through Virginia Department of Housing and Community Development (DHCD) and Virginia Housing Development Authority (VDHA) to private development companies. HUD is requiring private developers seeking federal stimulus money for projects in Virginia's designated coastal zone to ensure that their projects are consistent with the enforceable policies of the VCP. While Subpart F reviews do not apply to private recipients, VHDA, on behalf of the DHCD, requires recipients of HOME TCAP funds to certify that their proposals are consistent with the VCP in lieu of DHCD providing the certification. At HUD's request, DEQ has agreed to review and respond to HOME TCAP funded private development activities in the state's coastal zone. This agreement is limited to the duration of the HOME TCAP federal stimulus program. All federal consistency determinations and federal consistency certifications were completed with the established legal deadlines.

The OEIR continues to maintain a website for Federal Consistency Reviews and can be accessed through DEQ's main webpage or found at http://www.deq.virginia.gov/eir. The webpage includes the Commonwealth's Federal Consistency information package, a project list with project descriptions, and links to the DEQ main webpage for public notices of Federal consistency reviews. The webpage is updated weekly. The federal consistency information package was revised during this period. The revised information package now defines the "VCP" as the Virginia Coastal Zone Management Program instead of the previous definition as Virginia Coastal Resources Management Program reflected in the Final EIS. This change was made to be consistent with the new definition adopted by the VCP Program Manager.

The project under review seeks providing the certification. At HUD's request, DEQ has agreed to review and respond to HOME TCAP funded private development activities in the state's coastal zone. This agreement is limited to the duration of the HOME TCAP federal stimulus program.

Final Products % Completion Anticipated Completion Date

Federal consistency determinations and certification responses 50 9-30-2010

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

Year: 2009

for the period from October 2009 - March 2010

Task: 4 Dept. of Environmental Quality - Environmental Education Community Environmental Education Final deliverable(s) status: Project Period Open Current approved Project status: End: Closeout: Open Start: 10/1/2009 9/30/2010 12/31/2010

Over the past six months, DEQ staff, David Ruble in the Virginia Office of Environmental Education has worked to develop a Public Climate Change Education Training Module for community educators. The training program will consist of web resources, power point modules, community-based resources (such as Project Budburst and ClimateMasters). David has revised the Carbon Footprint webpage on the public Virginia Naturally website, developed a "5 Ways to Help Virginia's Environment," and researched and reviewed state and national materials for the modules. The modules will include essential principles of climate science and examples in Virginia of ecological and management issues. A "top ten" list of things the public can do to reduce C02 emissions will be included as a resource.

Ann Regn and David Ruble have conducted a needs assessment of community environmental education leaders to guide professional development workshops through the CZM region. David has been planning logistics for 5 workshops in the CZM region to include: Water Stewardship Campaign (Northern Neck and Virginia Beach), Introduction to Climate Science, Evidence of Climate Change in Virginia, and Virginia Climate Impacts. David communicates with the group through periodic emails.

To continue building capacity for delivering high- quality education, staff provide support for several statewide programs including: coordinating Virginia Naturally, Virginia's clearinghouse for environmental education; providing administrative support for the interagency Virginia Resource Use Education Council (VRUEC), promoting Meaningful Watershed Educational Experiences to communities, and advising regional teams in Hampton Roads, the Northern Neck and the Eastern Shore. Collaborative stewardship projects are being implemented by teams to address local issues, e.g. a native plant campaign and garbage summit on the Eastern Shore. The spring annual meeting for VRUEC has been planned; a site and theme for the annual environmental education conference has been selected; the site has been selected for a leadership summit planned for September. Consensus has been reached concerning the process for updating the state master plan.

**Anticipated Completion Date** Final Products % Completion 1. Virginia Public Climate Change Education Training Program Module 25% September 30 September 30 2. Capacity Building Reports on Delivering Environmental Education 50% 3. Meaningful Education Workshops/Training 50 September 30

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program Phase 2 Tappahannock Wastewater Treatment Plant Upgrade (WQIF) Project status: Current approved Final deliverable(s) status: Project Period Open Start: End: Closeout: Open 12/31/2010 10/1/2009 9/30/2010

Retrofitting the Tappahannock wastewater treatment plant with enhanced nutrient removal technology continues, under WQIF Grant #440-S-08-10. Construction began in April 2008 and is scheduled for completion in November 2010. To-date, \$4,337,316 of the \$4,710,623 grant has been paid to the Town, indicating that construction is about 92% complete.

In the period since October 2009, reimbursements totaling almost \$815,000 have been made to the Town for this project, exceeding the \$811,026 in State General Funds needed to provide a match for the Coastal Zone Management Program.

% Completion **Anticipated Completion Date** Install enhanced nutrient reduction technology at Tappahannock WWTP 92% Nov. 2010

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 6 Virginia Marine Resources Commission
Permit Review & Compliance

Project status: Current approved Final deliverable(s) status: Project Period Open
Open Start: End: Closeout:
10/1/2009 9/30/2010 12/31/2010

During the reporting period, VMRC received a total of 908 joint permit applications. Actions were completed on 895 projects some of which were received prior to the reporting period. During the reporting period 111 compliance inspections were conducted for previously issued permits. Also 63 compliance inspections for the random sample of 130 projects permitted by local wetland boards were completed.

During the reporting period local wetlands boards throughout Tidewater Virginia acted on 186 projects involving tidal wetlands. Of this total, 144 were approved as proposed, 39 were approved as modified and 15 required compensation either on or off site (5), in a mitigation bank (2) or through payment of an in lieu fee (10), accounting for 9,604 square feet of tidal wetland impacts.

Final Products
Collect permit compliance data for projects permitted by VMRC
Collect permit compliance for wetland projects permitted in 2008
Compile data for entry into data base

% Completion Ongoing 48 % 50% **Anticipated Completion Date** 

September 2010 September 2010

Task: 7 Dept. of Conservation & Recreation - Natural Heritage Habitat Conservation/ Locality Liaison

rabilat Conscivation, Locality Liaison

Project status:

Start: End: Closeout:

Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

- --Multiple presentations have been given to Planning District Commissions, Land Trusts, localities, consultants and state agencies including: Virginia Outdoor Foundation; Potomac Conservancy, Capital Region Conservancy; Accomack County; Middle Peninsula Planning District Commission; (PDC); Accomack-Northampton PDC; and several divisions and regional offices of the Department of Environmental Quality (DEQ). Presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, the Natural Heritage Data Explorer (NHDE) website, the Virginia Conservation Lands Needs Assessment (VCLNA), and the Land Conservation Data Explorer (LCDE).
- --For 10/01/09 through 03/31/10, 419 projects were reviewed for impacts to natural heritage resources in the coastal zone (41% of the projects reviewed statewide) Some of the projects involved activities on NASA's Fight Facilities on Wallops Island including shoreline restoration, development of a tidal & non-tidal wetlands mitigation bank and plans for installation of alternative energy sources (wind and solar) for the facility. Fort Belvoir has had numerous projects as a result of the Base Realignment and Closure (BRAC) Act, including a stream restoration project as well as rehabilitation of existing buildings in addition to new development.
- --68% of the Coastal Zone localities and Land Trusts have Natural Heritage data.
- --Locality Assistance: The Locality Liaison provided language and a map of Natural Heritage Conservation Sites to Caroline County for an update of their comprehensive plan <a href="http://www.co.caroline.va.us/4natural.pdf">http://www.co.caroline.va.us/4natural.pdf</a> >. Prince William County was provided digital data on potential locations of rare natural communities for their use in screening for natural heritage resources. Chesterfield County is currently working on their comprehensive plan with a consultant and has expressed interest in our information for inclusion in their green infrastructure section.
- --The Locality Liaison participated in a Natural Heritage Methodology Training Course at NatureServe headquarters in Arlington, VA. In addition the Locality Liaison participated in a NEMO/Virginia Cooperative Extension sponsored workshop: "Assisting Localities with Natural Resource Issues: An Introduction to Public Issues Education" intended as the first in a series of workshops designed to build the participants capacity and capability to work effectively with local government.
- --The Wetland Restoration Catalog is being posted to the DEQ CZM Coastal GEMS website. A grant has been submitted to EPA to rebuild the NHDE on a different platform and enhance the functionality of the website application.

Final Products % Completion
Project Review 50%

Locality Assistance Program Presentations 50%

Natural Heritage Data for Coastal Partners 50%

Improvements to the Natural Heritage Data Tools 50%

Anticipated Completion Date September 30, 2010 September 30, 2010 September 30, 2010 September 30 2010

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 8 Virginia Institute of Marine Science

Tidal Wetlands Management Technical Support

Final deliverable(s) status: Project Period Open Current approved Project status:

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

CCRM Advisory Activity:

	Information Requests	Add'l Field Visits	Meetings	Advisory Reports	Website Hits
OCT	178	03	17	47	257
NOV	149	05	80	34	236
DEC	122	01	12	31	275
JAN	200	01	20	49	291
FEB	177	01	13	38	228
MAR	140	01	16	41	281

#### Wetlands Reports:

The Center for Coastal Resources Management continues to post Joint Permit Applications with VRMC assigned numbers in a searchable database on the VIMS/CCRM website. To view the original shoreline permit applications, as well as the associated VIMS report, additional information, photos, and public hearing information for every application reviewed by the Wetlands Program staff please see: http://ccrm.vims.edu/perms/newpermits.html

#### Publications:

Rivers and Coast, Winter 2010, Vol. 5, No. 1, "Shallow Water Dredging" http://ccrm.vims.edu/publications/pubs/rivers&coast/Winter2010.pdf

Virginia Wetlands Report, Spring 2009, Volume 24, Issue 1, "VIMS Advisory Support: Updates for 2009"

http://ccrm.vims.edu/publications/publications\_topics/vwr/VWR\_2010\_spring.pdf

CCRM e-News Fall 2009, "Tidal Wetlands Workshop - Current Issues in Coastal Resources"

CCRM e-News Dec 2009, "Vulnerability of Shallow Tidal Water Habitats in VA to Climate Control"

CCRM e-News Feb 2010, "Spring Workshop Save the Date / Marine Debris & Ghost Crabpots"

Final Products % Completion Anticipated Completion Date Product #1 - Permit Application Reviews 50 Sept 30, 2010 Product #2 - Outreach Publications Sept 30, 2010 50 Product #3 - Wetlands Program Database Sept 30, 2010 50

Task: 9 Virginia Institute of Marine Science

2009 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries

Current approved Final deliverable(s) status: Project Period Open Project status:

Open Start: Fnd: Closeout: 12/31/2010 3/31/2011 10/1/2009

VIMS successfully completed the acquisition of aerial photographs of the entire bay and tributaries and coastal bays for the 2009 SAV annual survey.

VIMS also successfully completed ortho-rectfying all flightlines, mosaicing all the guadrangles, and photo-interpreted SAV on all guadrangles for the Chesapeake Bay and the Coastal Bays. VIMS distributed the baywide 2009 SAV numbers to all participants by the beginning of March. 2009 SAV data can now be viewed at:

http://web.vims.edu/bio/sav/sav09/index.html and also on our interactive map: http://web.vims.edu/bio/sav/maps.

Final Products % Completion **Anticipated Completion Date** 

**Draft Final Report** June, 2010 50 Final Report Dec., 2010

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 10 Dept. of Environmental Quality Subcontract

Eastern Shore Land Acquisition

Year: 2009

Project status: Current approved Final deliverable(s) status: Project Pending

Proposed Start: End: Closeout: 10/1/2009 3/31/2011

Work is progressing on landowner contacts to identify a willing seller within the critical migratory songbird habitat area of the southern tip of the Eastern Shore. As the downturn in real estate values continues, it is hoped that we will be able to identify a parcel soon. The Southern Tip partners met on February 2 and will meet again on May 6.

Task: 11 The Nature Conservancy

Mid-Atlantic Regional Council on the Ocean (MARCO) GIS Portal

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

A Core Team and Full Team were established to provide leadership and guidance to help ensure the project's deliverables are of high quality and meet the needs of the five MARCO states. The Core Team includes key staff from VA CZM, The Nature Conservancy (TNC) and NOAA's Coastal Services Center (CSC). The Full Team includes the Core Team, plus at least one representative from each Mid-Atlantic state.

A meeting with the Full Team was held to ensure that each state was familiar with the project's goals and to enlist their help in providing data to the portal and solicit their advice regarding portal design and functions. Subsequently, Core Team meetings and follow up communications were used to develop and implement a web-based stakeholder survey. For the purposes of this project, "stakeholders" are defined as the diverse state and federal agencies that have a stake or role in ocean resource management. The survey was designed to collect data regarding the portal's potential uses and desired features and functions, and also included questions regarding potential new spatial data layers for the portal that could be obtained from survey respondents. The survey results are currently being tabulated and will be summarized to comprise project Deliverable/Product #3, the "Stakeholder's Review Report". Due to initially slow response time from survey respondents, completion of this deliverable is estimated to be delayed by two weeks to May 15, 2010.

Work to complete Deliverable/Product #1, "Marine Habitat Data Layer in Web Format" was recently completed. These spatial data layers (geophysical, biological, and human use data) have not yet been transferred to VA CZM staff due to unanticipated delays in obtaining data sharing agreements with federal agencies that provided raw data for derived products, but these agreements have recently been obtained. We anticipate working with the Core Team in May to evaluate which of hundreds of potential map data layers are most suitable for transfer to the MARCO GIS portal.

A technical design and programming sub-team comprised of TNC, VA CZM, and CSC technical staff has been meeting to identify options to maximize work-flow efficiency and cross-platform compatibility between the MARCO portal and federal mapping sites such as the Multipurpose Marine Cadastre that are also currently being developed. An operational first draft of the MARCO GIS portal will be available in mid to late May.

Final Products % Completion **Anticipated Completion Date** #1 Marine Habitat Data Layers in Web Format 95% April 19, 2010 #2 Collection and Formatting of Additional Layers 10% July 31, 2010 #3 Stakeholder's Review Report 40% May 15, 2010 August 31, 2010 #4 Overlay Analysis 5% #5 Regional MARCO GIS Portal 10% September 30, 2010

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

for the period from October 2009 - March 2010

Task: 12.01	Accomack County					
Accomack Cou	nty Blue & Green Infr	astructure P	roject			
Project status:	tus: Current approved		Final deliverable(s) status:	Project Period Open		
Open	Start:	End:	Closeout:			
	10/1/2009	4/30/2010	9/30/2010			

1. Accomack County Blue & Green Infrastructure Protected Areas Mapping

Accomack County staff and Green Infrastructure Center staff have reviewed current county zoning and development plans and have determined what is protected and not protected for the base maps. Accomack County staff and Green Infrastructure Center staff have identified areas of conflict where zoning or development may impact assets, and have identified areas that could be better protected, enhanced, or restored.

2. Accomack County Blue & Green Infrastructure Opportunity Mapping

The Green Infrastructure Center staff has worked with Accomack County staff and focus groups to develop opportunity maps to highlight assets that are protected, assets that are at risk, and where to focus future attention and planning strategies. Asset Mapping Workshops were held at the Eastern Shore Heritage Celebration on February 27, 2010, Arcadia Middle School on March 8, 2010, Nandua Middle School on March 9, 2010, and at a Joint Work Session of the Board of Supervisors on March 10, 2010 at Metompkin Elementary School.

12/31/2010 3/31/2011

#### 3. Accomack County Blue & Green Infrastructure Plan Report

1. Blue & Green Infrastructure Protected Areas Mapping

10/1/2009

Final Products

The Green Infrastructure Center staff and Accomack County staff are preparing the Accomack County Blue & Green Infrastructure Plan Report, which summarizes the project and presents its key findings. The report includes asset maps, blue & green infrastructure opportunities, and associated recommendations for how opportunities may be realized. The report will be utilized to inform Accomack County's next Comprehensive Plan update as well as other county programs such as parks and open space planning, cluster development, economic development, ecotourism, transportation planning, etc. The report is in final production and will be printed by June 30, 2010.

% Completion

100%

**Anticipated Completion Date** 

Completed

Blue & Green Infi     Accomack Count				100% 90%	Completed June 30, 2010
Task: 12.02 North	thampton Cou Blue & Gree	,	ure Protection		
Project status:	ct status: Current approved			Final deliverable(s) status:	Project Period Open
Open	Start:	End:	Closeout:		

Products #1 & #2: Due to the delay in completing the draft interim stormwater management regulations, due largely to uncertainty about how Virginia General Assembly action would affect revised state stormwater management regulations, under the FY 2008 grant, Northampton County has not made progress on these tasks to date.

Product #3: Sandra Benson, Planning Director, has had preliminary discussion with Dr. Michael Chandler of PlanVirginia/Citizens Planning Education Association of Virginia, about the proposed Community Planning Academy. It is expected that additional discussions will occur before the end of April 2010 to discuss the proposal in greater detail. Preliminarily it has been determined that the fall of 2010 will be the optimum timeframe during which to conduct the educational sessions.

Product #4: Peter Stith, Long-Range Planner/Geographic Information System Coordinator, has completed ten (10) of sixteen (16) hours of CommunityViz software training with contractor Placeways, LLC. It is anticipated that the remaining hours will be scheduled in late April or early May 2010, contingent upon coordination of schedules between Mr. Stith and the contract instructor.

Product #5: The Comprehensive Plan Update to incorporate identified Priority Conservation Areas (PCAs) will be undertaken after Mr. Stith completes the CommunityViz training, which will enable him to present the PCAs to the Northampton County Planning Commission, Northampton County Board of Supervisors, and the public.

% Completion	Anticipated Completion Date
0	2/15/11
0	2/15/11
0.5	11/30/10
63	5/31/10
0	10/31/10
	0 0 0.5

Year: 2009

Performance Report, Section A, for Cooperative Agreement No.	NA09NOS4190163
for the period from October 2009 - March 2010	

Task: 12.03 G	eorge Washington	Regional Co	ommission			
Developing a Blue	-Green Infrastruct	ure Plan for t	he GW Region			
Project status:	Curi	rent approved	<u></u>	Final deliverable(s) status:	Project Period Open	
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010			

- 2.GWRC staff gathered imagery data and worked with NOAA Coastal Services Center staff to understand how to apply NOAA's Impervious Surface Area Analysis Tool (ISAT) (see: http://www.csc.noaa.gov/digitalcoast/tools/isat/) to identify areas which are contributing most to regional water quality deterioration.
- 3.GWRC staff learned how to run CITYgreen program to generate reports for all local governments and magisterial district areas.
- 4.GWRC staff met with Rappahannock River Basin Commission Non-Point Working Group to discuss basin-wide concerns about Chesapeake Bay Act Phase III Local Compliance Review requirements.

Final Products	% Completion	Anticipated Completion Date
#1: NOAA Remote Sensing Class for Land Cover Change Detection	95%	April 30, 2010
#2: Impervious Surface Change Detection using ISAT	60%	May 30, 2010
#3: CITYgreen Training Workshop	100%	March 30, 2010
#4: Application of CITYgreen to C-CAP Imagery & Change Analysis for Various Areas	25%	May 30, 2010
#5: Development & Implementation of Public Educational Outreach Program	10%	September 30, 2010

<sup>1.</sup>GWRC organized and hosted 2 technical training workshops for local government and PDC staff from outside the GWRC service area on: a.the use of CITYgreen software (see: http://www.americanforests.org/productsandpubs/citygreen/) for interpreting satellite land cover imagery and estimating ecosystem service benefits and costs of land cover change (taught by American Forests staff), and b.the use of remote imagery and GIS Spatial Analyst tool to determine land cover and land cover change (taught by NOAA Coastal Services Center staff).

## Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 12.04 Hampton Roads Planning District Commission

Sustainable Communities Focal Area: Climate Change in Hampton Roads

Project status: Current approved Final deliverable(s) status: Project Period Open

Start: End: Closeout: 1/1/2010 12/31/2010 3/31/2011

Assessment of Economic Impacts: HRPDC staff has begun to collect data and review methodologies for assessing the economic impacts of climate change on the Hampton Roads Region.

Tool Development: Sea Level Rise Impacts: HRPDC staff has continued to work with academic and other researchers to promote development of accurate and precise modeling tools for assessing the regional impacts of sea level rise. HRPDC staff has continued to meet with staff from VIMS and Noblis and maintains contact with both organizations.

Policy Recommendations: Built Environment: HRPDC staff has begun collecting built environment data on existing conditions and vulnerabilities to storm surge and flooding. HRPDC staff is developing an assessment model based on best available data that will also be able to incorporate new sources as better data becomes available. HRPDC staff is also reviewing possible adaptation and mitigation policies for the built environment.

Policy Recommendations: Natural Environment: HRPDC staff is continuing to analyze the impacts of climate change on the regional natural environment, using the region's Green Infrastructure Plan as a base. HRPDC staff is reviewing possible adaptation and mitigation policies for the natural environment.

Development of a Framework for the Response to Climate Change in Hampton Roads: HRPDC staff has continued to work on the regional Framework for responding to climate change. Regional committees and localities have been presented the initial Framework and a working group is in the process of being established that will guide further research into impacts as well as the evolution of the Framework over the next two years. HRPDC staff continued to involve local government staff and interested stakeholders in regional discussions on the impacts of climate change and beginning the process of planning for adaptation and mitigation.

Final Products % Completion **Anticipated Completion Date** Assessment of Economic Impacts 5% December 2010 Tool Development: Sea Level Rise Impacts 5% December 2010 Policy Recommendations: Built Environment 10% December 2010 December 2010 Policy Recommendations: Natural Environment 10% Development of a Framework for the Response to Climate Change in Hampton Roads December 2010

# Year: 2009 Performance Penert Section A for Cooperative Agreement No. NA00NOS 4400

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 12.05 Middle Peninsula Planning District Commission

Middle Peninsula Climate Change Adaptation Phase 2- Facilitation of Presentations and Discussions of Climate Change Issues with Local

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

To gain an understanding of social perceptions of climate change and sea level rise within the Middle Peninsula, MPPDC staff purchased software intended to obtain instant feedback and thoughts about climate change, sea level rise and local government's role in managing the potential impacts to the region. The software, known as Qwizdom, is an audience response system that utilizes handheld remotes and an interactive tablet to engage the audience on a topic of interest. Though this software has the capability to be preprogrammed to identify participants and their answers, for the purposes of the PDC this function is not needed; therefore all answers provided by participating audience members were completely anonymous.

To date MPPDC staff have presented the same series of yes/no, true/false, and multiple choice questions specific to climate change, sea level rise and governmental services within a PowerPoint presentation format to four audiences, including (1) PDC Board member on January 27th, (2) local planning staff on February 3rd, (3) the Mathews County Rotary Club on March 11th, and (4) PDC dinner Meeting attendees (ie. PDC Board members, County Board of Supervisors, County Administrators, County staff county planners, Bay Aging representatives, etc) on March 24th. Once responses were gathered at each meeting, MPPDC staff summarized the findings. The results showed considerable differences between the surveyed groups, which provide MPPDC staff some insight to the regional perceptions on this topic. Moreover since these audiences will all have a role in influencing the future development of public policy to respond to climate change and sea level rise, these results will assist MPPDC staff in developing future educational material about this topic as well as potential public policy recommendations.

MPPDC staff will continue to work closely with elected officials, county staff and the public to educate and facilitate discussions about this issue.

Final Products % Completion Anticipated Completion Date

General Public Education 24% Sept 2010 Elected Officials Education 50% Sept 2010

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

for the period from October 2009 - March 2010

Task: 12.06 Northern Neck Planning District Commission
Northern Neck Blue-Green Infrastructure Protection

Project status:

Open
Start: End: Closeout:
10/1/2009 9/30/2010 12/31/2010

NNPDC staff have clipped the Virginia Department of Recreation's Virginia Conservation Land Needs Assessment GIS dataset to the county boundaries of Northumberland and Lancaster Counties. VCLNA Maps have been made for Northumberland and Lancaster that depict Watershed Integrity, Urban Growth Prediction, Growth Outside the Urban Areas, Recreation Model, Forest Model, Cultural Model, and Agricultural model. NNPDC staff are also in the process of creating maps for each county by clipping the Priority Conservation Areas GIS data layer made by the Virginia Department of Conservation and Recreation with assistance from the Virginia Department of Game and Inland Fisheries. These maps will be used to help NNPDC and county staff determine which areas in their counties have the best chance of being designated as natural areas in the Blue Green Infrastructure maps. Special emphasis will be placed on the new septic regulations and the fact that there are no longer areas in the county that are off limits to development with the new engineered septic systems. Those areas in the county with poor draining soils might be better left in a natural state, instead of developed with impervious surfaces that will exacerbate the problem of stormwater control.

NNPDC staff have begun work on a powerpoint presentation for the introductory Green Infrastructure meeting in Northumberland and plan on meeting with county staff to review the presentation as well as to begin to start narrowing down green infrastructure areas. NNPDC staff are on the agenda for the May 20th Northumberland Planning Commission meeting to introduce the Green Infrastructure concept. NNPDC staff are also scheduled to be on the agenda for the Lancaster Planning Commission Introductory Green Infrastructure meeting on June 17th. NNPDC staff have scheduled additional Planning Commission Meetings to discuss Green Infrastructure Planning in Northumberland on July 15th and for Lancaster on August 19th.

NNPDC staff have been working with Richmond County staff and the Richmond County Comprehensive Planning Committee include the Cat Point Creek area in the Future Land Use Plan Map. No decision has been made as to whether they will include the enhanced conservation area or not. NNPDC will continue to closely follow the Comprehensive Planning Process in Richmond County to hopefully include green infrastructure elements. Westmoreland County has requested revisions to their comprehensive Plan, including some enhanced descriptive paragraphs of Green Infrastructure Planning for the second revision of the Draft Westmoreland County Comprehensive Plan Draft. NNPDC staff will be submitting language that will hopefully be included in the finalized Westmoreland County Comprehensive Plan.

Final Products % Completion Anticipated Completion Date Northumberland and Lancaster County Conservation Corridors Map Planning Commission/Consensus Building and Report 10% September 2010 September 2010 Follow-up Work on Richmond and Westmoreland Conservation Corridors 50% September 2010

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 12.07 Northern Virginia Regional Commission Climate Change Adaptation: Sustainable Shoreline Community Management in Northern Virginia; Phase II Current approved Final deliverable(s) status: Project Period Open End: Open Start: Closeout: 10/1/2009 9/30/2010 12/31/2010

Since October 2009, NVRC staff diligently worked toward the completion of the vulnerability assessment featuring the impacts of three sea level rise scenarios (steady state, average accelerated rate, and worst case scenario) on the built and natural environment.

During this time, the workgroup met once to review the status of the vulnerability assessment as well as discuss elements of the economic analysis of importance to them. In preparation for the meeting, the Virginia Cooperative Extension provided brief case studies of methods applied in two Maryland localities to quantify projected direct and indirect losses from sea level rise. In addition, through discussions with the Middle Peninsula Planning District Commission, NVRC pulled together a brief summary of their efforts. The workgroup decided that a hybrid approach that included both modeling and literature review would suffice.

Project partners, Chesapeake/Virginia NEMO contacted the NOAA - Coastal Services Center (NOAA-CSC) to assist in the design of a survey of Northern Virginia's waterfront property owners. Collectively, NOAA-CSC, NVRC, and NEMO researched similar surveying efforts from across the United States. Surveys conducted in North Carolina and Maine proved most relevant in terms of methodology, survey questions, and analysis. Workgroup members will have the opportunity to provide input into the survey process.

NVRC staff had the opportunity to meet with the Arlington County Office of Emergency Management, which is responsible for updating Northern Virginia's Regional Hazard Mitigation Plan and present an overview of the preliminary results of the vulnerability assessment and the overall project schedule. It was agreed that the results of the vulnerability analysis will fold into the Region's Hazard Mitigation Planning effort, providing the unique opportunity to possibly develop strategies for both hazard mitigation and adaptation in a manner that blends land use concerns with emergency response opportunities.

In addition, NVRC staff had the opportunity to present an overview of adaptation options at the municipal level, based on the Policy Inventory report developed as part of Phase I, at the Mid-Atlantic Climate Change Workshop in Cambridge, MD. NVRC staff will also moderate a session/dialogue on Local Government Responses to Climate Change featuring Wetlands Watch and the Hampton Roads Planning District Commission, at the Environment Virginia Symposium in April 2010.

Final Products	% Completion	Anticipated Completion Date
Workgroup Outcome Report	10	September 30, 2010
Vulnerability Maps and Report	25	September 30, 2010
Survey of NoVA Waterfront Property Owners Summary	5	September 30, 2010
Draft Adaptation Strategy Report	5	September 30, 2010

### Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 12.08 Richmond Regional Planning District Commission

Central Virginia Blue and Green Infrastructure Protection Planning Project

Project status:

Open
Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

Final deliverable(s) status: Project Period Open

Interim Reports – RRPDC staff produced 2 interim reports detailing how the Richmond Regional Planning District Commission (RRPDC) will work with City of Richmond staff and Crater Planning District Commission (CPDC) staff to accomplish the deliverable products of this grant.

GIS Data and Mapping for the City of Richmond – RRPDC staff has worked with City of Richmond staff from various Departments including Planning and Development Review, Economic Development, Parks and Recreation and has coordinated with the newly appointed Director of Sustainability to draft green infrastructure asset maps that are accurate and relevant. RRPDC has utilized GIS data created by the City of Richmond, State agencies, and Federal agencies in the mapping effort. In addition, RRPDC staff has created GIS data sets where appropriate; for example, RRPDC staff worked with City staff and gardening advocates around the City to map existing community gardens. Currently the existing green infrastructure assets have been mapped on five theme maps to facilitate ease of use and comprehension. These theme maps are Land Conservation, Water Resources & Water Quality, Recreation, Heritage & Culture, and Transportation & Sustainable Living Features. As well, RRPDC staff will use the CITYGreen software extension to ArcGIS to analyze the City's tree canopy once completed by the Virginia Department of Forestry. After GIS data creation and mapping is complete, RRPDC staff will produce a report for the City of Richmond that defines green infrastructure, conveys the importance of green infrastructure in an urban locality, and presents maps of the existing green infrastructure network in the City of Richmond by theme.

Rural Green Infrastructure Asset Implementation – RRPDC and CPDC staffs will provide an educational presentation about green infrastructure and distribute copies of the Richmond-Crater Region Green Infrastructure Project Report to local Planning Commission members and other local leaders for the localities in each respective PDC. In January 2010, RRPDC presented this information to the Charles City County Planning Commission. Crater PDC staff is presenting this information to localities in the Crater PDC. The staff of Crater PDC has presented the Richmond-Crater Region Green Infrastructure Report to Crater Planning District Commission, Crater Planning Directors, Friends of Chesterfield's Riverfronts, and Friends of Lower Appointance Revenue Corridor groups.

Urban Green Infrastructure Asset Assessment Model – RRPDC staff has been noting the steps taken to accomplish the GIS data gathering, creation, and mapping for use in the Urban Asset Assessment Model Report. This report will detail technical steps taken and the personal interactions that were used to create the existing green infrastructure asset assessment for the City of Richmond. This report will provide guidance to other urban localities in Central Virginia and the Mid-Atlantic region.

Final Products	% Completion	Anticipated Completion Date
Interim Reports	100%	December 30, 2009
GIS Data and Mapping for the City of Richmond	60%	June 30, 2010
Rural Green Infrastructure Asset Implementation	60%	September 30, 2010
Urban Green Infrastructure Asset Assessment Model	15%	September 30, 2010

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 41 Technical Assis	Accomack-Northam stance Program	pton Plannin	g District Commission	on	
Project status:	Current approved		Final deliverable(s) status:	Project Period Open	
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010		

#### Ground Water Committee

A-NPDC has held five Ground Water Committee meetings. The committee has reviewed two ground water withdrawal permits, two VWP permits, and completed two environmental reviews. The committee has also reviewed and commented to the EPA-Sole Source Aquifer Program on a landfill spray irrigation project in Accomack County. Experts have given presentations to the committee on CAFO and TMDL regulations updates. The committee has served on the State RAP for developing VA Ground Water Withdrawal Regulations and is currently finalizing Water Supply Plans for Accomack and Northampton Counties. The committee awarded the 2009 Ground Water Award to the Eastern Shore Nursery of Virginia for converting the nursery from field to container grown and in turn, greatly reducing the amount of water needed for operation and reengineering the land to incorporate state of the art practices as related to water conservation, recycling, and reuse of water, pollution prevention, recharge area protection and preservation, and aquifer recharge. The committee has committed to holding two public workshops annually, including workshops in June and October of 2010. The Household Hazardous Waste Collection has been scheduled for May 8, 2010 on Chincoteague Island.

#### Coastal Management Committee

A-NPDC has held two Coastal Management Committee meetings. The committee reviewed and discussed proposals for Virginia offshore wind energy projects and potential impacts and reviewed sea level rise research and discussed potential impacts from sea level rise. The meetings were held in conjunction with educational training regarding the Chesapeake Bay TMDL regulation developments. The committee decided to leverage the Certified Planning Commissioners training program, which was held for a 10-week period and included three all-day classroom sessions and weekly reading and homework assignments. The committee also identified future training opportunities for FY2009 including a public workshop on ground water and review and discussion of new LIDAR data for the Eastern Shore.

#### Land Use and Ground Water Resources Report

A-NPDC has begun updating a previous build-out analysis using Community Viz software to determine future ground water use on the Eastern Shore. Background data and previous reports have been compiled and build-out analysis has begun. The Ground Water Management Plan subcommittee is currently being reformed to discuss the build-out analysis and ground water resources.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Committee Report	50%	9/30/2010
Coastal Management Training Report	75%	9/30/2010
Technical Assistance Report	50%	9/30/2010
Ground Water Committee Report	50%	9/30/2010
Land Use and Ground Water Resources Report	50%	9/30/2010

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Year: 2009

Task: 42	Crater Planning District Commission						
Technical Assistance Program							
Project status:	Curr	Current approved			Final deliverable(s) status:	Project Period Open	
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010				

(1)Crater PDC staff processed 13 environmental impact reviews in regard to local, state and federal projects. (2) Two coastal meetings were held during the reporting period (10/30/09 and 1/29/10). Topics of discussion were the Watershed Protection Plan and Green Infrastructure Planning. (3) Commenced work on the Impervious Surface Special Project within the Crater Coastal Communities. (4) Two coastal training meetings were held during the reporting period (10/30/09 and 1/7/10). Topics of discussion were the energy efficient and Conservation Block Grant Program and Prince George Appomattox Regional Park Trail Extension Project. (5) The fall Appomattox River Clean-Up was held on October 31, 2009 at two sites located in Hopewell and Petersburg. (6) In addition to the Coastal meetings and the Coastal Training meetings, two "independent topic" meetings were also held. On February 19, 2010 a meeting was held to discuss the Fort Lee Joint Land Use Study (16 attended). Also, on March 23, 2010 a presentation was given on the Green Infrastructure Project to FOLAR and Friend's of Chesterfield Riverfront membership (17 attended). (7) On October 3, 2009 the Crater Commission co-sponsored the Kayak and Canoe Race on the Appomattox River. Forty-five persons participated in the race from Petersburg to Hopewell. (8) On March 25, 2010 Commission staff participated in the Middle James River Roundtable. (9) Commission staff supported the coastal communities effort to extend the scenic river designation on the Appomattox River from Campbell Bridge to City Point in Hopewell. (10) Currently three TMDL studies are underway within the Crater Region. Commission staff is participating in all three efforts.

Final Products % Completion Anticipated Completion Date Environmental Impact Review Comments 50% 9/30/10

Coastal Meetings 50% 9/30/10

Coastal Training 50% 9/30/10

Impervious Surface Study 20% 9/30/10

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 43 Hampton Roads Planning District Commission **Technical Assistance Program** Final deliverable(s) status: Project Period Open Current approved Project status: End: Open Start: Closeout: 10/1/2009 9/30/2010 12/31/2010

Regional Coastal Resources Management Program for Hampton Roads: Fiscal Year 2008-2009 Final Report Abstract: This report describes the environmental technical assistance program conducted by the Hampton Roads Planning District Commission during FY 2009 – 2010 through its Coastal Resources Management Program. This program encompasses environmental impact review, coordination of regional environmental programs addressing environmental issues, public information and education, and technical assistance to the localities. Through this Program, the HRPDC staff provides the following:

Regional Coordination Process. HRPDC staff facilitates monthly regional advisory committee meetings addressing wetlands, Chesapeake Bay Preservation Act, and other coastal and environmental issues. Activities are coordinated with local utilities, stormwater, and general planning programs and regional geographic information system issues. Through these programs, the localities develop regional consensus on state and federal regulatory and legislative issues, coordinate plans addressing these issues and exchange information on program activities. During the year, this effort focused on state water quality and TMDL requirements and implementation of Phase III of the CBPA.

Environmental Impact Review. Approximately thirty-five (35) environmental impact assessments/statements and coastal zone consistency determinations were reviewed, local government input coordinated, and comments provided to DEQ for inclusion in official state positions. Summaries of all projects were provided to the HRPDC.

Regional Technical Studies. HRPDC staff pursued a number of technical studies addressing water quality and watershed management. A stormwater management program plan for the Town of Windsor was completed and adopted this period, and work continued on a regional bacteria source tracking study.

Public Information and Education. HRPDC staff produces four quarterly newsletters, maintains information on its website, and provides regular briefings to local elected officials on the HRPD Commission, local governing bodies, and to professional and civic organizations. Copies of the newsletters and additional information can be found on the HRPDC web site: http://www.hrpdc.org/Documents/Newsletter.asp. In addition, several technical training sessions on water quality and regulatory issues were held during the year.

Technical Assistance. Daily assistance is provided to local government staff, consultants, businesses and citizen environmental organizations on environmental and planning issues. This includes ordinance and plan development, provision of technical information, acquisition and interpretation of aerial photography, and GIS data and maps. Assistance with organizational development and consideration of technical, regulatory, and policy issues is provided to regional environmental organizations in order to facilitate informed education and participation in local, regional and state planning and decision-making.

Final Products % Completion **Anticipated Completion Date** Final Report: Hampton Roads TA Program October 2010 10 EA/EIS and Coastal Consistency Review 50 September 30, 2010 Public Information, Education, and Training September 30, 2010 50 Regional Coordination Process September 30, 2010 50 Special Regional Studies 50 September 30, 2010

# Year: 2009 Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 44 Middle Peninsula Planning District Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Project Period Open
Open Start: End: Closeout:
10/1/2009 9/30/2010 12/31/2010

Coastal Management Support – MPPDC staff continues to provide coastal management support to local elected official and other local government officials, local planning commissions and local planning staff. MPPDC staff provided direct GIS analysis of development proposals, land conversion, land use plans, and local land use ordinance implementation over the first six months of the project. Project highlights included several facilitated discussions focusing on localities questioning the value of conservation easements (short term and long term), especially the short term fiscal impact from easements related to the devaluation of land and the direct loss of taxable real-estate as well as the nexus to the composite index and state aide for k-12 education. Staff also provided GIS assessment of property features, parcel boundaries and square foot calculation for tax assessment disparity determination.

Local Planning Coordination- MPPDC staff convened several meetings with local government level planners and administrators as well as the Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA) related to current coastal zone management issues. Item of most interest was the tracking and discussion of Virginia General Assembly Bills and Resolutions Under consideration during the 2010 session and the relations to coastal zone management and local land use and policy implications. Considerable staff time was devoted to the tracking of legislation pertaining to the management of on-site secondary treatment systems and the creation of a marine aquaculture enterprise zone in the Middle Peninsula. Training- see schedule below

(special project) Assistance with the implementation of the Middle Peninsula Chesapeake Bay Public Access Authority annual work plan. Two special focus areas themes are proposed: Wetland Mitigation Banking (1) Preservation of Working Waterfronts-Coastal Cultural identify(2)

a. Public Access and Working Waterfront survey assessment work continues in Mathews County by MPPDC staff. Mathews County is considering a change to local policy to preserve and enhance working waterfront infrastructure and public access.

b.. Assessment was completed on the Shenk Parcel to determine the utility as a public wetland mitigation site.

Final Products % Completion Anticipated Completion Date

Coastal Management Analysis and Policy Support 50 Sept 30 Local Planning Coordination 50 Sept 30

Assistance with the implementation of the Middle Peninsula Chesapeake Bay Public Access Authority annual work plan. Two special focus

areas themes are proposed: (a)Preservation of Working Waterfronts-Coastal Cultural identify and (b)Wetland Mitigation Banking

50% (a) Sept 30

100% (b)

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 45 Northern Neck Planning District Commission **Technical Assistance Program** Final deliverable(s) status: Project Period Open Project status: Current approved End: Open Start: Closeout: 10/1/2009 9/30/2010 12/31/2010

NNPDC staff have updated three Northumberland County digital GIS tax maps and are currently undergoing a quality control/quality assurance review. Updated E911 address data points as well as the new 2009 VBMP Aerial Photography is being utilized in this years' update. Work has begun on the fourth and fifth digital GIS tax map to be revised this grant year.

NNPDC staff have performed preliminary hurricane storm surge analysis using Virginia Department of Emergency Management hurricane surge map GIS data for Richmond and Lancaster County. Some issues have been identified regarding the valuation of outbuildings that would be affected by storm surge. The county assessed value combines all of the improvements of a property into one dollar amount. This means that piers, pools, gazebos, as well as garages and outbuildings are contained in the lump sum figure. NNPDC staff is working with county staff to help properly quantify the value of such secondary structures. Depending on the detail available from each county, differing methods could be used to help assign values to these accessory structures. Hopefully a region-wide approach can be used, if not the process for each county will be clearly defined in the final report.

Working waterfront sites have been identified using photos from the water and the Virginia Base Mapping Program's 2009 Aerial Photographs in Lancaster and Richmond counties, and a GIS file of the point locations has been created. Work will begin shortly on the two remaining Northern Neck Counties (Westmoreland and Northumberland), while, simultaneously coordinating with county staff persons in Lancaster and Richmond to review the draft working waterfront locations. Individual maps with aerial photos will be generated to facilitate the coordination with county staff of sites that are no longer in use and those that are actively being utilized. Other interested local parties that have intimate knowledge of the maritime industry (such as watermen) will be invited to comment on the draft working waterfront sites for each county after county staff have first reviewed the working waterfront GIS data.

NNPDC staff held a local coordination meeting of Northern Neck Land Use Administrator's on March 10th, 2010. Staff from the Virginia Department of Conservation, Division of Chesapeake Bay Local Assistance conducted a training session for local county staff on the upcoming Chesapeake Bay Act Phase III Compliance Review. Of special import was the requirement (that has never been enforced) for the county to notify agricultural land owners that all lands that are farmed within the Chesapeake Bay Management Areas (Resource Protection Area and the Resource Management Area, which includes all of the lands of the four Northern Neck Counties) of the requirements for an up to date farm Erosion and Sediment Control Plan, Nutrient Management Plan and Pesticide Management Plan. NNPDC staff responded that the work done in previous grant years through VACZM funding created a farm inventory of the Northern Neck back in 2000. This GIS farm inventory data can be used to help the counties comply with this newly enforced requirement and that the NNPDC will work with the counties to assist in this project.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Support	50%	September 2010
Local Planning Coordination	25%	September 2010
Northumberland County % Revised Digital Tax Maps	60%	September 2010
Regional Coastal Storm Surge Hazard Assessment	40%	September 2010
Northern Neck Working Waterfront Inventory Map	40%	September 2010

Year: 2009

#### Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 46 Northern Virginia Regional Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Project Period Open

Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

NVRC hosted a meeting among 22 local Chesapeake Bay Program Managers and relevant staff and the DCR – Division of Chesapeake Bay Local Assistance (CBLA) on the advisory review process for the Chesapeake Bay Phase III Program. The objective of the meeting was to update local staff on the status of CBLA's first round of advisory reviews and to answer any questions or concerns on the process. Based on feedback received from representatives from Northern Virginia's localities and others across the state, CBLA intends on developing a list of good site plan examples. Additionally, they are developing a list of policies, ordinances, and provisions as they work through their reviews.

In partnership with the Northern Virginia Soil and Water Conservation District and the Arlington County Department of Environmental Services, NVRC hosted two Beautifying Your Yard for Clean Water workshops on designing, building, landscaping, and maintaining small-scale rain gardens. Sixty-six participants attended one of the two 4-hour long workshops, at Virginia Tech's Northern Region Campus and Green Spring Gardens Park. Roughly half of the participants who completed a feedback form stated they planned on installing a rain garden on their property after attending the workshop.

The Northern Virginia Clean Water Partners enters its sixth year implementing the Regional Stormwater Education Campaign. NVRC developed the 2010 campaign plan and hired Water Words That Work, LLC (WWTW) to assist in its implementation. Additionally, NVRC made the request for contributions, acquiring a new partner this year – Alexandria Sanitation Authority. The campaign plan includes a pilot study on the effectiveness of blogging at increasing and retaining Northern Virginia readers by promoting items of interest about dogs. In coordination with the Metropolitan Washington COG, a comment policy and associated orientation and risk management guidance for the blogger were developed. NVRC and WWTW presented the findings of the 2009 pilot study to the elected officials comprising the Northern Virginia Regional Commission and to local, state, and federal government peers at the Social Media for Government Workshop in Washington, DC.

Since October, NVRC staff reviewed and responded to 12 environmental assessments or environmental impact statements across the region. To date, NVRC has not received notice of significant changes in projects due to comments provided by NVRC staff. NVRC staff participated in two Coastal PDC coordination meetings, in Saluda and Warsaw, as well as two Coastal Policy Team meetings focused on the 309 strategy, in Richmond.

Final Products % Completion Anticipated Completion Date Report on Northern Virginia Coastal TA Program 40 September 30, 2010 Summary of Regional Stormwater Education Campaign 25 September 30, 2010

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 47 Technical Assists	George Washington ance Program	Regional Co	ommission			
Project status:	Current approved		Final deliverable(s) status:	Project Period Open		
Open	Start: 10/1/2009	End: 9/30/2010	Closeout: 12/31/2010			

GWRC staff convened 2 quarterly meetings of the local government planning directors, held a special meeting between local government staff and the Director of DCR's Division of Chesapeake Bay Local Assistance regarding the proposed CBLA Phase III compliance review requirements, co-authored (with the local committee) regional review comments related to the Phase III compliance review requirements; and co-hosted a Green Building Summit meeting, in partnership with the Fredericksburg Area Builders Association and Germanna Community College.

GWRC staff continues to provide technical staff support to three active sub-committees of GWRC's Green Government Commission; namely: Green Buildings, Green Waste/Recycling and Green Earth. GWRC staff time invested in these sub-committee efforts produced the following accomplishments:

- •Substantial progress on the development of the regional green government green resources website which will go live in April using the URL: http://www.GWGreenGovt.org
- •Working with the Green Building sub-committee, GWRC won a \$1 million energy efficiency and conservation block grant award from the Va. Department of Mines, Minerals and Energy to implement a regional home performance with Energy Star pilot program in Fredericksburg, Caroline Co (including the Towns of Port Royal and Bowling Green) and Stafford and Spotsylvania Co.
- •Working with the Green Waste/Recycling sub-committee, GWRC assisted with:
  othe implementation of commercial recycling program at the Spotsylvania Towne Center,
  oa presentation to the regional Hospitality Council to regional support for wider
  othe implementation of a commercial recycling survey among apartments and town house properties managed by Benchmark Management
  (as the largest commercial property management company in the region) to assess interest in commercial recycling services,
  ofacilitating a dialogue between Spotsylvania and Caroline Counties and Fort A.P. Hill, resulting in a diversion of Caroline and Fort AP Hill
  wastewater treatment sludge to Spotsylvania County's organic compost recycling program,
  osub-committee plans to organize Earth Day public event to promote public awareness in recycling and conservation practices.
- •Working with the Green Earth sub-committee, GWRC assisted with: oimplementing, through a technical assistance grant from the MillionMile Greenway (see: http://www.millionmilegreenway.org/software.php), the development of a prototype regional greenway corridor model based on committee ranking of various landscape and cultural features.

GWRC staff completed the development of inventory of regional organizations which would be potential stakeholders in Children and Nature Initiative project, met with Rappahannock Area Office on Youth Director Ben Nagle to discuss program development and community outreach strategy.

Final Products	% Completion	Anticipated Completion Date
#1: Report on Local Government Coordination and Training Program	25	Sept 30, 2010
#2: Support Regional Children & Nature Network/ "No Child Left Inside" Initiative	20	Sept 30, 2010
#3: Support to GWRC's Green Government Commission Sub-Committees	50	Sept 30, 2010
Regional Green Government/Sustainability Website/Internet Portal	90	April 15, 2010
Regional Green Building Summit or Tour	100	March 30, 2010

# Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 48 Richmond Regional Planning District Commission **Technical Assistance Program** Current approved Final deliverable(s) status: Project Period Open Project status: End: Open Start: Closeout: 10/1/2009 9/30/2010 12/31/2010

Report on Coordination Initiatives - RRPDC staff completed 14 environmental reviews of local, state, and federal projects during this period. The comments from these reviews will be included in a final report.

Report on Training Initiatives- The Environmental Technical Advisory Committee (Environmental TAC) is organized by RRPDC staff and generally meets to bring together local and state environmental staff for training opportunities and discussion of environmental issues. RRPDC staff attempted to plan meetings of the Environmental TAC during the first six months of the grant but lack of interest on the part of local government staff and coordination issues due to inclement winter weather complicated meeting plans. RRPDC staff intend to schedule the meetings required by this grant in the remaining months. RRPDC staff are planning an Environmental TAC for late April or early May. The agendas and proceedings of these meetings will be included in the final report.

Impervious Cover Forecast Report - RRPDC staff have begun review of impervious surface GIS data created in previous years. Data accuracy and consistency across inventory years are the main goals for this review. In addition, RRPDC staff is using recently released 2009 aerial imagery from the Virginia Geographic Information Network's Virginia Base Mapping Project to verify data accuracy and consistency. RRPDC staff is also beginning to expand the impervious surface inventory to include 2009 base data. In March 2010, RRPDC staff attended a training workshop hosted by George Washington Planning District Commission; the workshop provided training on GIS tools available from the NOAA Coastal Services Center for remote sensing for spatial analysis. One suite of tools enables a user to perform land cover analysis of aerial imagery. RRPDC staff intends to use this suite of tools to improve the accuracy and breadth of the existing impervious cover GIS layers and to improve the precision and pace at which future layers can be created.

Water Supply & Wastewater Treatment Report - RRPDC staff created a draft regional water and wastewater GIS data layer including the location of treatment plants, service areas, current capacity and flow. Local public utilities directors provided review and comment on the regional draft map and corresponding data. Staff met with the region's local utility deputy directors on November 12, 2009 to review water and wastewater data collected and mapped, and to discuss a strategy to best illustrate the data on a region-wide map. RRPDC staff met with the Deputy Directors of the Utility Departments from the large jurisdictions on December 12, and followed up with each locality through mid-February to obtain existing and proposed water and sewer information to create a regional infrastructure map layer. PDC staff will be following up with some to collect additional information. Contact with the smaller jurisdictions including Charles City, New Kent, and utility directors and private providers was made by early March; with the full inventory of regional utility information to be complete by early April. PDC staff has already met with local planning directors.

Final Products % Completion Coordination Initiatives 50% Training initiatives 10% Impervious Cover Forecast Report 45% Water Supply and Wastewater Treatment Report 65%

**Anticipated Completion Date** September 30, 2010 September 30, 2010 September 30, 2010 September 30, 2010

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 49 Virginia Beach/Virginia Aquarium and Marine Science Center

Sea Turtle and Marine Mammal Stranding Response

Project status: Current approved Final deliverable(s) status: Project Period Open

Start: End: Closeout: 1/1/2010 12/31/2010 3/31/2011

This grant officially started on January 1, 2010. During the period from January through March 2010, the Virginia Aquarium Stranding Response Program (VAQS) recorded six strandings in Virginia. There were 13 strandings recorded during the same period in 2009. The VAQS Stranding Team responded to five marine mammal strandings in Virginia during this reporting period, three cetaceans and two pinnipeds. One (20%) of the strandings was located in Virginia Beach, and four (80%) were located on Virginia's eastern shore. The cetacean species included one common dolphin (Delphinus delphis), one bottlenose dolphin (Tursiops truncatus) and one harbor porpoise (Phocoena phocoena). Pinniped species included one harp seal (Pagophilus groenlandica) and one harbor seal (Phoca vitulina). The harbor seal stranded alive and was rehabilitated and released.

There was one sea turtle stranding recorded by the VAQS Stranding Team during this reporting period. The sea turtle species was a Kemp's ridley (Lepidochelys kempii) and it was very fresh when it was recovered. The turtle's fresh condition indicated it likely was affected by the cold, winter water temperatures, a debilitating condition for marine turtles called "cold stunning". In addition, VAQS received several live sea turtles from North Carolina as a result of cold-stunning during the winter and have been providing rehabilitation care.

VAQS Staff attended four professional meetings and made one formal presentation during this reporting period. VAQS hosted the SouthEast and Mid-Atlantic Marine Mammal Symposium (SEAMAMMS) in Virginia Beach during March for more than 75 attendees. There were 12 educational and/or training presentations by Stranding Team members to groups in the Hampton Roads area. Grant funded VAQS staff worked more than 360 hours and Stranding Team volunteers contributed more than 3,900 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications will be included in the final report.

Final Products

VA Sea Turtle & Marine Mammal Stranding Response & Reporting

Personnel Training Activities

Public Education Activities

Sea Turtle & Marine Mammal Stranding Response & Reporting

15%

December 31, 2010

December 31, 2010

December 31, 2010

Year: 2009

#### Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 81 Dept. of Conservation & Recreation

Coastal NPS Program Management

Project status: Current approved Final deliverable(s) status: Project Period Open

Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

For the grant reporting period, the Environmental Analyst at the Virginia Commonwealth University continued to serve as the Coastal NPS Program Manager and implement the Coastal NPS Program at the Virginia Department of Conservation and Recreation. The focus of the Coastal NPS Program is the continued expansion of the role and services of the Virginia Network for Education of Municipal Officials (VNEMO) in the Coastal Zone.

The Coastal NPS Program Manager continued to implement the VNEMO Program to support the Sustainable Community Planning Focal Area Projects, integrate the Chesapeake Bay TMDL Watershed Implementation Plan for local government process, implement the National Fish and Wildlife Foundation Grant at the Science Museum of Virginia, develop climate change materials for the NEMO Program, assist local governments (such as Richmond County and Charles City County) with achieving their long range resource protection goals, brought together partners to develop another National Fish and Wildlife Foundation grant application and participated in the implementation of a training for local government on climate change adaptation planning.

VNEMO, in coordination with Chesapeake NEMO, has continued a strong role with the implementation of the project in coordinating specific roles and responsibilities within the program delivery and context of the Shoreline Project, under the guidance of the NVRC, the VNEMO client. VNEMO provided a Program partner to assist in the economic analysis portion of the project. The VNEMO program also assisted in the development of the outline that guides the facilitation process for the meetings and directly assisted in the facilitation of public meetings. VNEMO secured the participation of the NOAA CSC to provide assistance in survey design and analysis.

The Coastal NPS Program Manager was requested by VDCR to implement a training program to improve the capacity of the field staff in implementing outcome based technical assistance for local governments, following the model of the VNEMO Program. This initiative is intended to prepare the VDCR staff for the likely increases in requests for technical assistance from local government when the CBTMDL and VA SWM Regulations are implemented. The CNP Program Manager began participating in the development of the local government engagement strategy of the CB TMDL including the development of communication and outreach materials.

The CNP Program Manager began the implementation of the \$1.7M, NFWF funded, project at the Virginia Science Museum. The Manager is sharing the Project Management role with the Director of Science at the Museum. Project leadership outlined the overall project and identified teams to began the preparation of engineering designs, monitoring program design and educational and outreach materials.

The VNEMO Program directly assisted both Charles City and Richmond Counties with their Comprehensive Planning efforts. Charles City County requested assistance with the identification of urban growth areas and Richmond County has been in the process of a Comprehensive Plan revision. The VNEMO Program lead the public, community visioning session and has continued to build local capacity.

The CNP Program Manager partnered with the MPPDC to develop a NFWF proposal to implement a nutrient management strategy based upon a working waterfront model. Partners included: VCU, Virginia Tech, Rappahannock River Oyster Co and MPPDC.

The CNP Program Manager partnered with the Chesapeake NEMO, Maryland Chesapeake and Coastal Program, NOAA OCRM and others to develop a Pre-Forum workshop on Climate Change Adaptation Planning that was held prior to the Chesapeake Watershed Forum in Shepherdstown, WVA, in October 2009. The CNP Program Manager provided an overview presentation of various US case studies presenting local government responses to climate change as well as an introduction to climate change adaptation planning. Participants were from local government. Also at the Chesapeake Watershed Forum, the CNP Program Manager will present the draft NEMO Presentation on Climate Change Adaptation.

Final Products	% Completion	Anticipated Completion Date
Product #1	50	On time
Product 2	50	On time
Product 3	50	On time
Product 4	50	On time

### Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 91.01 University of Virginia - Institute for Environmental Negotiation 309 Assessment & Strategy

<u>Project status:</u> <u>Current approved</u> <u>Final deliverable(s) status:</u> Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

IEN and CZM staff held a conference call Oct. 1, 2009 to familiarize IEN staff with the Section 309 Assessment enhancement areas, and to identify the IEN and CZM staff persons who would serve as enhancement area leads.

From October 2009 to December 2009, IEN staff interviewed 50 experts in a variety of coastal and marine-related fields in order to gather the information requested by the Section 309 Guidance form.

IEN staff sent preliminary drafts of Section 309 Assessment Dec. 3, 2010 for review and feedback by research contacts and CZM enhancement area leads, and incorporated their feedback into the first draft of the assessment.

IEN staff submitted the first draft of the assessment (the "Draft 309 Assessment" final product) Jan. 5, 2010, which was reviewed by CZM staff.

Feedback from the Draft 309 Assessment was incorporated by IEN staff into the Revised Draft 309 Assessment, which was sent to the Coastal Policy Team Feb. 8, 2010 in order to help them prepare for the Feb. 17, 2010 meeting.

IEN staff facilitated and produced meeting agendas for the Coastal Policy Team meeting Feb. 17, 2010. IEN also presented summaries of the enhancement area research findings at the meeting.

IEN staff produced meeting agendas for and facilitated focus group meetings on Mar. 24, 2010 and Mar. 31, 2010, to discuss and determine strategies for the two policy areas decided upon at the Coastal Policy Team meeting in February. The summaries for both meetings are expected to be completed by April 19, 2010.

The final draft of the 309 Assessment is expected to be delivered in May 2010.

Final Products % Completion Anticipated Completion Date

Draft 309 Assessment 100%
Coastal Policy Team meeting materials 100%
Revised Draft 309 Assessment 100%

Final Draft 309 Assessment95% Apr. 30, 2010

Strategy Group Meetings and Summaries 90% Apr. 19, 2010

Task: 91.02 Environmental Law Institute
Program Administration: RPCs & Amendments

Proposed Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

this task, we may need to transfer funds from Task 93.02 into this task.

The \$29,433 in this task have not yet been allocated. We are in the process of determining the cost of doing an analysis of a "wildlife" RPC that would formally incorporate updated inland fisheries laws (which may inextricably include state threatened and endangered species laws) and of clearly defining the Virginia CZM Program's "enforceable policies" per NOAA's recent request. If those costs exceed the amount available in

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

for the period from October 2009 - March 2010

Task: 92 Middle Peninsula Planning District Commission

Shellfish Aquaculture and Working Waterfront Infrastructure: Mathews County Phase 2

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

Middle Peninsula Planning District Commission (MPPDC) staff have contracted with Neal Barber, President of Community Futures, to develop the concept of an In-Water Public Aquaculture and Maritime Business Park in Mathews County. With experience in creating business parks on land, Mr. Barber is looking to transform the traditional land based business park model into a marine environment. To date, Mr. Barber has developed an outline explaining the conceptual framework of the aquaculture business park, including what it is, potential services provided at the park, and facilities that will be needed to support these services. As part of In-Water Public Aquaculture and Maritime Business Park Alternative Use Areas will be developed that will act as relay areas for aquaculturists who may experience water quality condemnations. Currently MPPDC staff is working with the Mathews County Planning Staff to create a list of stakeholders including staff of VMRC and VIMS who will assist in developing the details of the In-Water Public Aquaculture and Maritime Business Park and Alternative Use Areas. The stakeholder group will specifically consider: (1) the location of the in-water component of the park that consists of appropriate environment conditions to grow shellfish (primarily oysters), (2) the possible location of facilities (ie. docks, electricity, parking, boat launch, fuel, maintenance areas, cold storage, water, sewer, etc) on land to support the in-water activities, (3) the types of services desired and needed at the park, and (4) the size of the park(s).

MPPDC staff are also exploring potential auxiliary service that the In-Water Public Aquaculture and Maritime Business Park could provide. For instance, a Water Quality Improvement Revolving Oyster Program could facilitate recreational oyster gardeners in donating oysters to the park for water quality improvements. On a bi annual donating schedule, oysters will then be sold to the open market and proceeds will be rebated back to the recreational oyster growers for purchase of more seed. Furthermore the park could act as a Nutrient Trading Bank to assist with Chesapeake Bay cleanup initiatives.

To gain local support the MPPDC staff presented these concepts to the Mathews County Industrial Development Authority (IDA) on March 10, 2010. Following a discussion of the conceptual framework and showing the Mathews County Aquaculture Video, the IDA did pass a resolution supporting MPPDC staff efforts in developing the In-Water Public Aquaculture and Maritime Business Park. In conjunction with community support, recent legislation to develop Aquaculture Opportunity Zones (VAC 28.2-603) could ease permitting obstacles. MPPDC staff has contacted Jack Travelstead, Deputy Commissioner and Chief of Fisheries Management at Virginia Marine Resources Management Commission (VMRC), to discuss using Mathews County as a pilot site for these Aquaculture Opportunity Zones.

MPPDC staff will continue to work with VMRC, Mathews County, and Neal Barber in further developing these ideas.

Final Products % Completion Anticipated Completion Date

York River Use Conflict Policy Recommendations 25% Sept 2010
New Policy Strategies for Shellfish Aquaculture and Working Waterfront Protection 50% Sept 2010

Possible Establishment of "Alternative Use" Areas 50% Sept 2010

Task: 93.01 Virginia Commonwealth University

Coastal GEMS Maintenance

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout:

10/1/2009 9/30/2010 12/31/2010

Coastal Gems maintenance was performed during this grant project period. Tasks were to refresh map services and update data and cartography in the map file. During this period, CZM staff requested that data and symbology in the application be updated on 3 currently in production layers and that 4 new data layers be added to the application. These updates are currently in progress.

Coastal Gems has remained operational during these updates and was only offline to install software/security updates or to refresh map services.

Google Analytics remains operational and sends an email PDF report to CZM staff weekly to show access and web statistics for the Gems application. From October 1, 2009 to March 31, 2010, Coastal GEMS received 711 visits from 367 unique visitors resulting in 880 pageviews and an average site visit time of 98 seconds.

Coastal GEMS can be accessed online at: www.coastalgems.org

Final Products % Completion Anticipated Completion Date

Coastal GEMS Maintenance 50% Sept. 30, 2010

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 93.02 TBD CSI: Intergovernmental Decision-making: GEMS Improvements						
Project status:		Current appro	ved	Final deliverable(s) status:	Project Pending	
Proposed	Start:	End:	Closeout:			
would formally clearly defining	incorporate upo the Virginia CZ	lated inland fish M Program's "e	eries laws (which may	inextricably include state threat r NOAA's recent request. If the	of doing an analysis of a "wildlife" RPC that tened and endangered species laws) and of ose costs exceed the amount available in FY	
Task: 94.01 Design and Co	9	te of Marine Sci	ence Course Development a	nd Implementation		

The creation of Living Shoreine Curriculum case studies and the development of step by step directions for specific site living shoreline design are under way. In addition, VIMS is gathering existing data necessary for living shoreline design and preparing for distribution via standard programs such as Google Earth. The Living Shoreline Design and Construction" classes will be scheduled in late August or September. Once a date is set, publicity will begin to attract students for the class. The course curriculum, tests, case studies, and data will be published to the web.

Final deliverable(s) status: Project Period Open

Final Products % Completion **Anticipated Completion Date** Curriculum 65% August 2010

August 2010 Class 50% September 2010 Publish to the web 0

Closeout:

9/30/2010 12/31/2010

Current approved

End:

Start:

10/1/2009

Year: 2009

Project status:

Open

Virginia Institute of Marine Science Task: 94.02 Shoreline Inventory Reports for Tidewater Localities Phase 3-Fairfax and Prince William Counties Final deliverable(s) status: Project Period Open Current approved Project status: Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

This project develops shoreline inventories for Prince William and Fairfax County in the Northern Virginia region of the Commonwealth. The project includes data collection, processing, and map production, as well as the posting of data to the website and Coastal GEMS.

Data collection is a weather dependent activity and field work is scheduled for this May, 2010. To date progress has been focused on developing the digital shoreline that will be used as the baseline for the project. This process involved photo-interpretation of the land water interface from high resolution digital imagery from the year 2009.

Final Products **Anticipated Completion Date** % Completion Fairfax County Shoreline Inventory 10-1-2010 25 Prince William County Shoreline Inventory 10-1-2010 25

Year: 2009

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163 for the period from October 2009 - March 2010

Task: 94.03 Virginia Institute of Marine Science Shore Evolution in Four Virginia Localities Current approved Final deliverable(s) status: Project Period Open Project status: End: Open Start: Closeout: 10/1/2009 9/30/2010 12/31/2010 The necessary images for James City County, Isle of Wight, Suffolk and the City of Portsmouth are being collected and scanned. The photos will include at least 1937, 1994, 2002, 2007, and 2009. The photo mosaics for 1994, 2002, 2007, and 2009 are complete. At least one date between 1937 and 1994 will be included; however VIMS is still identifying gaps in the images for these years. Once the gaps are identified and the images will be obtained if possible. The images will be rectified and mosaicked.

The outline for the final reports has been completed. As data and maps become available for each locality, the reports will be finalized.

Final Products % Completion Anticipated Completion Date

Shore Evolution GIS data 50 July 2010 Final Reports 25 September 2010

Task: 94.04 Virginia Institute of Marine Science

Living Shorelines Website for Property Owners, Industry and Managers

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

VIMS/CCRM conducted three focus group meetings in January to gather input from representatives of the regulatory agencies, shoreline contractors and shoreline property owners and the general public. The meetings went very well and VIMS/CCRM gathered some good suggestions and ideas on content and format for the re-designed Living Shorelines website. Website design is well underway incorporating new content, links and photos.

Final Products % Completion Anticipated Completion Date

Website launch 65 Sept 30, 2010

Task: 95 Middle Peninsula Planning District Commission

Special Area Management Plan for Dragon Run

<u>Project status:</u> <u>Current approved</u> <u>Final deliverable(s) status:</u> Project Period Open

Open Start: End: Closeout: 4/1/2010 9/30/2010 12/31/2010

4/1/2010 9/30/2010 12/31/2010

Project did not commence until 4-1-2010.

Task: 96 TBD

Seaside Special Area Management Plan

<u>Project status:</u> <u>Current approved</u> <u>Final deliverable(s) status:</u> Project Pending

Proposed Start: End: Closeout:

On April 16 a request was submitted through Grantsonline to remove the SAC on this Task and create two subtasks: Task 96.01 to The Nature Conservancy for \$34,923 for project administration and habitat distribution/suitability evaluation and Task 96.01 to VIMS for \$45,077 for spatial analysis and interpretation for shellfish grounds and SAV beds. These projects will run from May 1, 2010 through March 31, 2011.

Performance Report, Section A, for Cooperative Agreement No. NA09NOS4190163

for the period from October 2009 - March 2010

Task: 97.01 Middle Peninsula Planning District Commission

Middle Peninsula Conservation Corridors Plan

Year: 2009

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

The Middle Peninsula Planning District Commission (MPPDC) staff began this project with a broad research effort focused on understanding the concepts underlying green infrastructure conservation corridor planning and gathered case studies of communities that have developed green infrastructure plans. The research became the foundation for MPPDC staff to develop an information sheet about green infrastructure conservation corridor planning, how it may be beneficial to the region, as well as green infrastructure planning initiatives within the Commonwealth of Virginia.

Originally, MPPDC staff gathered GIS data from the 2006 Department of Conservation and Recreation – Division of Natural Heritage (DCR-DHN) project, Virginia Natural Landscape Assessment, to develop maps of green infrastructure in the region. However through the course of the project, the Virginia Department of Game and Inland Fisheries (DGIF), DCR-DHN, and Virginia Commonwealth University Center for Environmental Studies, created Priority Conservation Area data sets that provided statewide green infrastructure updates. More specifically this GIS data highlighted unfragmented habitat areas and potential links between contiguous patches of land, aquatic communities, wetlands, identified habitat for rare species and special wildlife. Therefore, MPPDC staff utilized this data to develop a variety of regional maps that depicted green infrastructure in the region that is considered of highest priority to conserve.

MPPDC staff is currently constructing a list of stakeholders that could provide local input and feedback for the maps in order to generate a more accurate inventory of green infrastructure within the Middle Peninsula. In addition, to obtain examples of how similar projects have been promoted within the coastal zone, the MPPDC consulted with Sarah Stewart at the Richmond Regional PDC to discuss the approach used to endorse the RRPDC Green Infrastructure Plan to localities in their region.

Task: 97.02 Northern Virginia Regional Commission Northern Virginia Conservation Corridor Planning

Project status: Current approved Final deliverable(s) status: Project Period Open

Open Start: End: Closeout: 10/1/2009 9/30/2010 12/31/2010

The first half of this project year focused on compiling data and information necessary for developing a conservation corridor map in Northern Virginia. NVRC staff consolidated an overview of green infrastructure related work conducted throughout the region, by local governments, non-profit organizations, and the Metropolitan Washington Council of Governments. NVRC staff prepared maps of the existing VCLNA, VaNLA, and PCA models, clipping these results to the Northern Virginia boundary. NVRC staff acquired the most recent planimetric information for the localities across the region, as well as the maps and layers developed by the George Washington Regional Commission (GWRC) as part of their conservation corridor project.

On two occasions, NVRC staff presented updates to the Northern Virginia Land Managers, which led to a formal presentation to the Northern Virginia Conservation Trust's Land Stewardship Committee, who will be actively involved in the stakeholder process. To support the stakeholder process, set to begin with an informational session, in May, NVRC secured a contract with the Green Infrastructure Center (GIC) to provide technical review and meeting facilitation services. A list of potential stakeholders was developed, as well.

Additionally, NVRC staff attended two training sessions hosted by the GWRC on CityGreen software and on Remote Sensing for Land Cover Analysis, co-sponsored by American Forests and NOAA-Coastal Services Center, respectively.

Final Products % Completion Anticipated Completion Date

NoVA Conservation Corridor Maps and Report 10 September 30, 2010

NoVA Conservation Corridor Presentation 10 September 30, 2010